

09413000 SANTA CLARA RIVER AT ST. GEORGE, UT

LOCATION.--Lat 37°04'31", long 113°35'32", in SE^{1/4}SW^{1/4}NE^{1/4} sec. 1, T. 43 S., R. 16 W., Washington County, Hydrologic Unit 15010008 on right bank 0.8 mi upstream from mouth and 2 mi south of St. George.

DRAINAGE AREA.--541 mi².

PERIOD OF RECORD.--October 1950 to September 1956, November 1984 to current year.

GAGE.--Water-stage recorder. Crest-stage gage since January 27, 1993. Elevation of gage is 2,560 ft above NGVD of 1929, from topographic map. October 1950 to September 1956, gage located 0.25 mi downstream and November 1984 to September 1989, 0.5 mi downstream from present site, both at different datum.

REMARKS.--Records fair except for discharges less than 2.0 ft³/s and estimated daily discharges, which are poor. Flow regulated by reservoirs and many diversions for irrigation above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,000 ft³/s, Mar 12, 1995, gage height, 14.60 ft, from rating curve extended above 2,800 ft³/s; no flow at times in 1951, 1953, 1955-56, 1989, 1991, and 2002.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 49 ft³/s, Jul 24, gage height, 5.54 ft; minimum daily discharge, 0.04 ft³/s, Aug 22, 29.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.6	4.7	5.0	2.8	3.7	3.6	2.0	0.75	0.36	0.11	0.05
2	3.5	1.5	4.7	4.7	2.9	3.2	2.8	2.3	0.78	0.42	0.35	0.06
3	3.5	2.1	5.0	4.9	2.9	3.3	3.1	2.2	1.1	0.39	0.45	0.06
4	1.7	2.0	5.2	4.8	3.0	2.9	2.3	1.7	0.97	1.1	0.18	0.08
5	1.3	2.5	4.5	4.8	2.9	3.2	2.1	1.6	1.0	1.0	0.12	0.08
6	1.4	2.7	4.7	4.7	2.7	2.9	2.4	1.9	0.89	0.90	0.28	0.60
7	1.6	2.8	4.6	4.9	2.6	3.1	2.8	2.3	0.70	0.38	0.10	1.1
8	1.3	2.9	4.5	4.1	2.6	4.0	2.4	1.9	0.82	0.33	0.11	1.00
9	1.3	3.1	4.6	4.1	2.6	3.2	2.5	1.8	0.78	0.32	0.11	0.70
10	1.2	3.0	5.8	4.0	2.6	4.8	2.0	1.7	0.87	0.33	0.11	0.26
11	1.3	2.4	4.9	3.1	2.7	3.1	2.7	1.6	0.84	0.30	0.10	0.66
12	1.5	2.7	4.7	3.4	2.7	3.1	2.4	1.4	0.76	0.20	0.09	2.7
13	1.4	2.7	4.6	3.7	2.2	3.0	2.3	1.5	e0.50	0.15	0.07	1.2
14	1.2	3.8	4.7	3.7	1.5	4.7	3.4	1.8	1.0	0.10	0.06	0.87
15	1.0	3.2	5.4	3.8	1.6	5.0	2.2	1.5	1.2	0.10	0.05	0.56
16	1.2	2.5	5.6	4.1	1.6	7.8	3.3	1.7	1.0	0.12	0.15	0.37
17	1.3	3.0	5.2	4.2	1.8	5.5	5.4	1.5	e0.60	0.14	0.12	0.46
18	1.4	2.2	3.4	4.2	2.6	4.2	3.3	1.4	e0.50	0.15	0.07	0.44
19	1.9	2.1	4.4	4.8	3.1	5.0	2.6	1.6	e0.45	0.13	0.07	0.37
20	2.3	3.3	5.5	4.8	3.0	6.2	3.3	1.7	e0.60	0.18	0.07	0.33
21	2.1	2.7	4.6	4.8	2.7	4.9	3.0	1.7	1.1	0.12	0.05	0.35
22	2.1	2.5	4.3	4.7	2.5	4.2	2.2	2.0	0.85	0.12	0.04	0.30
23	2.1	2.9	4.4	5.2	2.8	3.1	1.4	2.0	e0.60	0.11	0.05	0.32
24	1.7	4.3	4.2	5.7	2.6	4.2	1.7	2.3	e0.40	2.9	0.06	0.50
25	1.6	5.7	4.3	6.0	2.6	5.2	1.6	1.6	e0.30	0.80	0.06	0.64
26	1.7	4.5	4.4	5.9	3.4	e3.9	1.9	1.8	0.47	0.13	0.05	0.31
27	1.9	4.5	4.5	5.8	3.4	e4.9	2.5	2.4	0.66	0.13	0.07	0.87
28	2.0	4.3	4.5	5.7	3.5	2.4	2.2	1.7	0.37	0.15	0.05	0.76
29	2.3	4.2	6.0	4.8	---	3.1	2.0	1.3	0.81	0.28	0.04	0.61
30	1.9	4.6	5.3	2.9	---	2.9	2.3	1.1	0.47	0.33	0.06	0.67
31	1.5	---	7.7	2.8	---	4.4	---	0.94	---	0.11	0.06	---
TOTAL	54.1	92.3	150.9	140.1	73.9	125.1	77.7	53.94	22.14	12.28	3.36	17.28
MEAN	1.745	3.077	4.868	4.519	2,639	4.035	2.590	1.740	0.738	0.396	0.108	0.576
MAX	3.5	5.7	7.7	6.0	3.5	7.8	5.4	2.4	1.2	2.9	0.45	2.7
MIN	1.0	1.5	3.4	2.8	1.5	2.4	1.4	0.94	0.30	0.10	0.04	0.05
AC-FT	107	183	299	278	147	248	154	107	44	24	6.7	34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951-56, 1986-2002, BY WATER YEAR (WY)

MEAN	3.482	5.341	6.673	12.72	16.45	34.20	21.80	14.57	10.04	5.051	6.027	3.835
MAX	10.5	22.1	26.5	128	136	313	136	80.8	73.5	29.1	38.8	12.7
(WY)	1999	1999	1999	1993	1993	1995	1952	1993	1995	1995	1955	1998
MIN	0.22	0.59	0.91	0.82	0.79	1.44	1.50	1.09	0.31	0.36	0.055	0.29
(WY)	1991	1991	1992	1991	1991	1991	1991	1990	1990	1990	1956	1953

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1951-56, 1986-2002

ANNUAL TOTAL	1550.62	823.10		
ANNUAL MEAN	4.248	2.255	11.87	
HIGHEST ANNUAL MEAN			56.0	1993
LOWEST ANNUAL MEAN			1.18	1991
HIGHEST DAILY MEAN	47	Mar 10	7.8	Mar 12 1995
LOWEST DAILY MEAN	0.52	Aug 7	0.04	Sep 21 1951
ANNUAL SEVEN-DAY MINIMUM	0.73	Jun 24	0.05	Aug 20 1956
ANNUAL RUNOFF (AC-FT)	3080		1630	8600
10 PERCENT EXCEEDS	8.3		4.8	22
50 PERCENT EXCEEDS	3.7		2.0	3.5
90 PERCENT EXCEEDS	0.92		0.12	0.50

e Estimated